Safety Data Sheet acc. to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Printing date: March 19, 2019

Revision: March 18, 2019

1 Identification of the substance/mixture and of the company/undertaking Product identifier Trade name: Potassium Chloride, 4M, Saturated Product code: BHPC4001-P Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No further relevant information available. Details of the supplier of the Safety Data Sheet ManufacturerSupplier: AquaPhoenix Scientific, Inc. 860 Gilts Run Road Hanover, PA 17331 Phone: (717)632-1291 Toll-Free: (866)632-1291 Info@aquaphoenixsci.com Distributor: Dubois Chemicals Inc. 3630 East Kemper Rd Cincinnati, OH 45241 (800) 438-2647 Emergency telephone number: Chem Tel Inc. (800) 255-3924 (North America) +1 (813)248-0585 (International) 2 Hazards identification Classification of the substance or mixture Eye Irift 2B H320 Causes eye irritation. Label elements OHS label elements The product is classified and labeled according to the Globally Harmonised System (GHS). Hazard pictograms None. <	
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• Other hazards There are no other hazards not otherwise classified that have been identified.	 GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). Hazard pictograms None. Signal word Warning Hazard statements H320 Causes eye irritation. Precautionary statements P264 Wash thoroughly after handling. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

· Chemical characterisation: Mixtures

· Components:

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Γ	7732-18-5	Water		70.20%
	7447-40-7	Potassium chloride	Eye Irrit. 2B, H320	29.80%

4 First aid measures

[.] Description of first aid measures

- · General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:
- Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

- · After eye contact:
- Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- Most important symptoms and effects, both acute and delayed Causes eye irritation.
- May cause gastro-intestinal irritation if ingested.
- Hazards: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

5 Firefighting measures

Extinguishing media

• Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- For safety reasons unsuitable extinguishing agents: No further relevant information available.
- Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation

For large spills, wear protective clothing.

Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

[•] Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose of the material collected according to regulations.

[·] Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

[·] Handling:

- Precautions for safe handling Use only in well ventilated areas.
- · Information about fire and explosion protection: No special measures required.

[•] Conditions for safe storage, including any incompatibilities

- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.

Do not store together with acids.

- Further information about storage conditions: Keep container tightly sealed.
- Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Exposure controls

· General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- Engineering controls: Provide adequate ventilation.
- · Respiratory protection: Not required under normal conditions of use.
- · Protection of hands:



Protective gloves

Material of gloves
 Nitrile rubber, NBR
 Neoprene gloves
 Butyl rubber, BR
 Natural rubber, NR
 Sensibilisation by the components in the glove materials is possible.
 Eye protection:

(Cont'd. on page 4)

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Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

· Body protection: Protective work clothing

• Limitation and supervision of exposure into the environment: No further relevant information available.

9 Physical and chemical properti	es	
 Information on basic physical and Appearance 	I chemical properties	
Form:	Liquid	
Colour:	Colourless	
· Odour:	Odourless	
 Odour threshold: 	Not determined.	
· pH-value:	Not applicable.	
Melting point/freezing point:	Not determined.	
· Initial boiling point and boiling range	: 105-110 ℃ (221-230 ℉)	
· Flash point:	The product is not flammable.	
	Not applicable.	
· Flammability (solid, gas):	Product is not flammable.	
· Auto/Self-ignition temperature:	Not determined.	
· Decomposition temperature:	Not determined.	
· Explosive properties:	Product does not present an explosion hazard.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
 Oxidising properties 	Not determined.	
· Vapour pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F):	1.26 g/cm ³ (10.51 lbs/gal)	
 Relative density: 	Not determined.	
 Vapour density: 	Not applicable.	
· Evaporation rate:	Not applicable.	
 Solubility in / Miscibility with 		
water at 20 °C (68 °F):	330 g/l	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity		
Dynamic:	Not applicable.	
	Not determined.	
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Kinematic:

Not applicable.

Other information

Not determined. No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal temperatures and pressures.
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.

 Possibility of hazardous reactions Toxic fumes may be released if heated above the decomposition point. Reacts with strong acids.

- · Conditions to avoid Excessive heat.
- · Incompatible materials No further relevant information available.
- · Hazardous decomposition products
- Under fire conditions only:

Chlorine compounds

11 Toxicological information

Information on toxicological effects

· Acute toxicity:

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 8725 mg/kg (rat)

- · Primary irritant effect
- · Skin corrosion/irritation: Based on available data, the classification criteria are not met.

· Serious eye damage/irritation: Irritating effect.

· Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

· NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable routes of exposure:

Ingestion. Inhalation.

Eve contact.

Skin contact.

- · Acute effects (acute toxicity, irritation and corrosivity): Irritating to eyes.
- · Repeated dose toxicity: No further relevant information available.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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• Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- STOT-single exposure: Based on available data, the classification criteria are not met.
- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

- [·] Toxicity
- · Aquatic toxicity: No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- · **Bioaccumulative potential** No further relevant information available.
- Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- [·] Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

[·] Waste treatment methods

· Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.

- [•] Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information		
[·] UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	Not Regulated	
 UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA 	Not Regulated	
[·] Transport hazard class(es)		
 DOT, ADR/RID/ADN, IMDG, IATA Class 	Not Regulated	
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		(Cont'd. from page 6)
 Packing group DOT, ADR/RID/ADN, IMDG, IATA 	Not Regulated	
· Environmental hazards:	Not applicable.	
[·] Special precautions for user	Not applicable.	
 Transport in bulk according to Anne Marpol and the IBC Code 	ex II of Not applicable.	

	gulations/legislation specific for the substance
mixture [.] United States (USA)	
· SARA	
· Section 302 (extremely hazardous substa	inces):
None of the ingredients are listed.	
· Section 355 (extremely hazardous substa	inces):
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listing	ngs):
None of the ingredients are listed.	
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65 (California):	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Chemicals known to cause developmenta	al toxicity for females:
None of the ingredients are listed.	
· Chemicals known to cause developmenta	al toxicity for males:
None of the ingredients are listed.	
· Chemicals known to cause developmenta	al toxicity:
None of the ingredients are listed.	
· EPA (Environmental Protection Agency)	
None of the ingredients are listed.	
· IARC (International Agency for Research	on Cancer)
None of the ingredients are listed.	
· Canadian Domestic Substances List (DSI	L) (Substances not listed)
All ingredients are listed.	

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